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(12) 实用新型专利申请说明书

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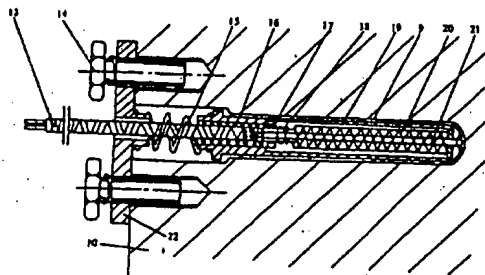
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[54] 实用新型名称 一种瓦块测温元件

[57] 摘要

一种用于热控系统中轴瓦等的温度测量的瓦块测温元件, 一改传统瓦块测温元件的结构, 热电阻 20 通过铜材料与外界接触, 时间常数大大降低; 整体密封式结构, 油水绝缘性能好; 采用压板弹簧式安装结构, 安装牢固可靠, 元件抗震性能高; 不失为一种理想的实用瓦块测温元件。



(BJ) 第1452号

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Abstract

A bush temperature measuring element for measuring the temperature of a bearing bush or the like used in a thermo-control system. In contrast with the conventional bush temperature measuring element, the thermal resistance 20 of the invention makes contact with the target object through copper material, the time constant is significantly reduced. With an integrally sealed structure, oil and water proof performance of the temperature measuring element is excellent; and with a plate-spring structure, the temperature measuring element can be installed firmly and reliably with an excellent anti-vibration performance. Thus, the invention provides an ideal bush temperature measuring element.

What is claimed is:

1. A bush temperature measuring element for measuring the temperature of a bearing bush, a pushing bush and a guiding bush or the like used in a thermo-control system, comprising a thermal resistance, a copper sheath, fixing means and so on, characterized in that the thermal resistance 20 being formed by winding an enamel covered wire on a copper skeleton 21, the thermal resistance being inserted into the copper sheath 19, one end of the copper skeleton 21 being welded to the bottom end face of the copper sheath, the other end being supported by a chuck plate 17 tightly attached to the inner wall of the copper sheath, the lead-out wires of the thermal resistance being led out by means of a twin-strand plastic sheathed wire 13, the inner end of the sheathed wire being fixed tightly at both ends of the chuck plate through the tighten wire 18 and coated with insulating varnish, the opening of the copper sheath being sealed with epoxy resin 16, the temperature measuring element being inserted into the measuring hole of a bush, a spring 15 fitted on the sheathed wire forcing the head of the temperature measuring element into the measuring hole, the other end of the spring contacting a plate 22 which is fixed to the bush through fastening elements 14.